IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the patent of:

KONNO et al.

Patent Number: 5,397,432 Issued: March 14, 1995

For: METHOD FOR PRODUCING SEMICONDUCTOR INTEGRATED CIRCUITS AND

APPARATUS USED IN SUCH METHOD

REQUEST FOR CERTIFICATE OF CORRECTION

Assistant Commissioner for Patents Washington, D.C. 20231

March 10, 1997

Sir:

The undersigned requests that a Certificate of Correction be issued for the above-identified patent as indicated on the attached Form PTO-1050.

REMARKS

This request is being made in order to correct our typographical error in column 11, line 39 and the omission of symbols in Table-1. In support of the corrections to Table-1, we are enclosing a copy of page 24 of the specification.

It is respectfully submitted that no new matter has been added.

Enclosed is a check for One Hundred Dollars (\$100.00) to cover any necessary cost for this change. If however, any additional fees are due, please charge our Deposit Account No. 14-1060.

Respectfully submitted,
NIKAIDO, MARMELSTEIN, MURRAY & ORAM LLP

APPROVED

George E. Oram, Jr. Reg. No. 27,931

Atty. Case No. P698-1333

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Enclosures: PTO Form 1050; Copy of Page 24 of the Specification; Check # 12856

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. :

5,397,432

DATE

March 14, 1995

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Conditions	Amount of residual chlorine umg/cm ² ·10 ¹⁵ atoms/cm ²		Symbols After- shown in corrison FIG. 9	
	0.32±0.36	16.0±1.0	Large	0
① Etching only ② Downflow ashing	0.39±0.06	15.5±1.0	Large	•
using O2 after ① ② Downflow ashing	0.54±0.03	9.3±0.4	Small	=
using O2+CF4 afte: ① Downflow ashing	= ① 0.23±0.03	4.0±0.3	ИО	Ó
using O2+H2O afte S Exposure to H2O	o.si±0.02	8.7±0.3	Small	•
after ① (30sec) ® Exposure to H20	10.0±8±0	8.1±0.2	Small	•
after (2) (90sec) ② Exposure to H20	0.45±0.04	7.5±0.7	Small	•
after ② (180ser ③ Downflow treatm using H2O after	ent 0.29±0.01	4.7±0.2	None	٢
(30 sec)	ment 0.15±0.00	2.5 ± 0.0	Ио	
using H ₂ O afte (30 sec) 30 Downflow treat: using H ₂ O afte	ment 0.11±0.01	l 1.9±0.1	уо	
(130sec) ① Downflow treat:	menc 0.58±0.	01 11.3±0.2	Small	L
using H ₂ after (30 sec) ② Downflow treat	ment 0.68±0.	01 11.7±0.	i Smal	<u>.</u>
using H ₂ O aft (90sec) © Downflow trea using H ₂ aft (180sec) Exposure to H ₂ O:	cmenc 0.54±0 er Ø	•		.1

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5,397,432

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. :

5,397,432

DATES

March 14, 1995

INVENTURISS :

KONNO et al.

It is cardified that error appears in the above-identified pattent and that cald Letters Patent is hereby contented as shown below:

Column 11, line 39, delete "or" insert therefor -- and --.

5,397,432

MAILING ACCRESS OF SENEER:

Nikaido, Marmelstein, Murray & Oram LLP Metropolitan Square, 655 Fifteenth Street, N.W. Suite 330-G Street Lobby Washington, D.C. 20005-5701

FORM PTG 1050 : REV. 3-427

PATENT NO.	
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Table 1

	Conditions	Amount of res μm g/cm ² 10 ¹⁵	sidual chlorine atoms/cm ²	After- corrosion	Symbols shown in Fig. 9
0	Etching only	0.92±0.06	16.0±1.0	Large	0
2	Downflow ashing using O ₂ after ①	0.89±0.06	15.5±1.0	Large	•
3	Downflow ashing using O ₂ +CF ₄ after	0.54±0.03	9.3±0.4	Small	
4	Downflow ashing using O ₂ +H ₂ O after	0.23±0.03	4.0±0.5	No	♦
⑤	Exposure to H ₂ O after ② (30sec)	0.51±0.02	8.7±0.3	Small	A
6	Exposure to H_2O after Q (90sec)	0.48±0.01	8.1±0.2	Small	A
⑦	Exposure to H ₂ O after ② (180sec)	0.45±0.04	7.6±0.7	Small	•
8	Downflow treatment using H ₂ O after ② (30sec)	0.28±0.01	4.7±0.2	None	Δ
9	Downflow treatment using H ₂ O after ② (90sec)	0.15±0.00	2.5±0.0	No	Δ
®	Downflow treatment using H ₂ O after ② (180sec)	0.11±0.01	1.9±0.1	No	Δ
(1)	Downflow treatment using H ₂ after ② (30sec)	0.68±0.01	11.8±0.2	Small	▼
@	Downflow treatment using H ₂ O after @ (90sec)	0.68±0.01	11.7±0.1	Small	▼
(3)	Downflow treatment using H ₂ after ② (180sec)	0.64±0.01	11.1±0.2	Small	.

Exposure to ${\rm H}_2{\rm O}$: heated at $120^{\circ}{\rm C}$ in water vapor at 0.1 Torr.

"FEE ADDRESS" INDICATION FORM

Commissioner of Patents and Trademarks

Box M. Fee

Washington, D.C. 20231

Please recognize as the "Fee Address" under the provisions of 37 CFR 1.363 the following

COMPUTER PATENT ANNUITIES c/o COMPUTER PATENT ANNUITIES INC. Suite 305 901 N. Washington Street Alexandria, VA 22314 U.S.A.

Payor Number if assigned 000197

in the following listed application(s) or patent(s) for which the Issue Fee has been paid.

PATENT NUMBER (if known)	SERIAL NUMBER	PATENT DATE (if known)		
,397,432	07/743,383	March 14, 1995	U.S. FILING DATE August 21, 1991	
•				

Typed name of person signing Charles M. Marmelstein

signed (check one)

Owner of record

 \underline{XX} Owner's attorney or agent of record

(Reg. No.) 25,895

Form PTO 1537